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critical velocities in liquid helium and properties of quantum vortices were reviewed in a paper by V. P. Peshkov. The nature of critical velocities was the subject of papers by V. K. Tkachenko, and of B. N. Yesel'son, Yu. V. Kovdar', and B. G. Lazarev. A communication by G. A. Gamtsemlidze, Sh. A. Dzhaparidze, and Ts. M. Salukvadze was devoted to an attempt at direct observations of coupling between vortex filaments and a solid surface. E. L. Andronikashvili and L. A. Zamtaradze have observed that with increasing rate of rotation, the rate of flow of the helium over the film decreases and reverses sign at a certain angular velocity. Rotating helium is also the subject of a paper by Yu. G. Mamaladze and S. G. Matinyan. Two papers at the conference concerned the propagation of sound in helium, one by A. F. Andreyev and I. M. Khalatnikov on the temperature dependence of the speed of sound in HeII, and one by A. N. Shaanova on the reflection of zero sound from a solid wall. The question of the state diagram of He^3 and He^4 mixtures was considered in the papers of K. N. Zinov'eva and N. G. Bereznyak and of I. V.

Bogoyavlenskiy and B. N. Yesel'son. A paper by E. L. Andronikashvili, R. A. Bablidze, G. V. Gudzhabidze, L. A. Zamtaradze, Dzh. S. Tsakadze, and G. V. Chanishvili dealt with the influence of rotation on the λ -transition temperature in helium. Dzh. S. Tsakadze talked of the kinetics of formation of the meniscus on the surface of rotating helium.

Different problems connected with superconducting alloys, their properties, preparation, and use for the production of extremely strong magnetic fields were reported in a review article by N. Ye. Alekseyevskiy. N. Ye. Alekseyevskiy, N. N. Mikhaylov, M. N. Smirnova, A. N. Fedotov and S. A. Khromov, and also Yu. F. By*chkov, I. N. Goncharov, V. I. Kuz'min, and I. S. Khukhareva, investigated the influence of heat treatment on the critical parameter of superconducting alloys based on Nb and Zr. N. V. Volkenshteyn and E. V. Galoshina measured the transition temperature of V-Sc alloys. N. Ye. Alekseyevskiy reported an investigation of the magnetic properties of

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Nb alloys, and also the observation of superconductivity in many alloys and compounds. A review paper by A. A. Abrikosov and L. P. Gor'kov was devoted to the theory of superconducting alloys belonging to the second group of superconductors. V. V. Shmidt investigated a model of such a superconductor comprising a dielectric slab threaded longitudinally by thin superconducting filaments. L. P. Gor'kov and A. I. Rusinov investigated the coexistence of superconductivity and ferromagnetism and constructed possible phase diagrams for it. N. Ye. Alekseyevskiy and M. N. Mikheyeva investigated the temperature dependence of the critical current of thin films. Such films have very large critical fields, which do not depend on the film thickness (B. G. Lazarev, Ye. Ye. Semenenko, A. I. Sudovtsev). Another group in Khar'kov (I. G. Yanov, A. A. Maksakova, and O. N. Ovcharenko) measured the critical fields of thin films of niobium and obtained results which agreed with the theoretical calculations. S. Ya. Berkovich and R. A. Chentsov attempted to take account of the influence of the inhomogeneities of real films on the kinetics of the de-

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struction of their superconductivity by means of current. V. P. Galayko investigated theoretically electron paramagnetic resonance in a superconducting film. The properties of hollow superconductors in the magnetic field (with a wall thickness much smaller than the depth of penetration) were considered by G. F. Zharkov and Hsu Lung-tao within the framework of the Ginzburg-Landau macroscopic theory.

N. V. Zavamitskiy reported a detailed tunnel-effect investigation of the anisotropy of the gap in tin. The energy gap in single-crystal tin was investigated also by the ultrasound absorption method (A. G. Shepelev). I. M. Dmitrenko, I. K. Yanson, and V. M. Svistunov investigated the properties of a three-layer superconducting film structure and the possibility of its utilization as a radiation detector in the near and middle infrared regions of the spectrum. N. B. Brandt and N. I. Ginzburg indicated the possibility of the transition of Cd, under hydrostatic compression, into a non-superconducting state without a change in the crystalline structure.

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B. G. Lazarev, L. S. Lazareva, T. A. Ignat'yeva, and V. I. Makarov investigated the influence of pressure and non-magnetic impurities of different valence on the temperature of the superconducting transition of Tl. V. L. Ginzburg made a general theoretical analysis of the influence of pressure on the width of the energy gap. 1. A. Privorotskiy undertook an interesting attempt to explain the nonzero Knight shift observed in some superconductors at zero temperature. Closely related to his work is a communication by S. V. Vonsovskiy and M. S. Svirskiy concerning the influence of the singlet or triplet nature of the electron pairs on the state of superconductivity and concerning the conditions under which the formation of such pairs is energetically favored. The external photoeffect on a superconductor was investigated theoretically by V. V. Slemov. The American theoretician P. Hohamberg reported on his investigation of the influence of nonmagnetic impurities on the properties of anisotropic superconductors. Many new interesting effects were observed recently in the behavior of very pure metals in magnetic fields. E. A. Kamer

and V. F. Gantmakher investigated theoretically and experimentally two effects connected with electrons drifting deep into the surface of a metal. M. Ya. Azbel' calculated theoretically the depth of penetration in a magnetic field parallel and perpendicular to the surface. In another paper, M. Ya. Azbel' and V. G Peschanskiy established that in the presence of open plane Fermi-surface sections, a linear dependence of the resistance of metallic single crystals is possible only in a field parallel to the sample surface, and not in the case of an inclined magnetic field. E. A. Kaner and V. G. Skobov have shown that in a strong magnetic field, when the cyclotron frequency is large compared with the collision frequency, weakly damped electromagnetic excitations of different types exist in metals. The existence of weakly damped electromagnetic waves in metals also leads to many new resonance effects in the propagation of sound (Skobov and Kaner). F. G. Bass, A. Ya. Blank and M. I. Kaganov investigated theoretically the propagation of low frequency electromagnetic waves in a conducting gyrotropic medium under the conditions

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of normal skin effect.

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Great interest was aroused by a communication by M. S.

Khaykin, L. A. Fal'kovskiy, V. S. Edel'man, and R. T. Mina concerning
an investigation of recently discovered magnetoplasma waves. Ye. P.
Vol'skiy investigated quantum oscillations of conductivity of singlecrystal bismuth and aluminum. Kh. I. Amirkhanov, R. I. Bashirov,
Yu. E. Zakiyev, A. Yu. Mollayev, and Z. A. Ismailov measured the quantum oscillations of transverse magnetic resistivity in degenerate
electronic samples of antomonides, and arsenides of indium and gallium
(in pulsed fields up to 400 kOe). N. B. Brandt reported an investigation of the deHaas-vanAlphen effect in Bi-Se and Bi-Te alloys. The
anisotropy of magnetoacoustic oscillations in single-crystal specimens
of gallium was investigated by P. A. Bezugly*y, A. A. Galkin, A. I.
Pushkin, S. G. Zhevago, and A. P. Korolyuk, and "giant" oscillations
of the absorption coefficient of sound in bismuth were observed. Interesting features of "poor" metals of the bismuth type were discussed

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also by A. A. Abrikosov. Ye. V. Potapov investigated experimentally the optical properties of crystalline bismuth and antimony in the infrared region of the spectrum at 2°K. L. A. Fal'kovskiy has shown that spin-orbit coupling is the cause of the appreciable dependence of the g-factor in metals of the bismuth type on the quasimomentum. M. Ya. Azbel' and E. K. Skrotskaya calculated the diamagnetic susceptibility of the electron gas in very strong magnetic fields.

The possibility of the existence of a new type of quantum oscillations in metals was reported by M. Ya. Azbel'. In another report, M. Ya. Azbel' indicated the possibility of observing ordinary quantum oscillations (the deHass-van Alphen effect, the Shubnikov-deHaas effect) at temperatures that are high compared with the distances between the Landau levels, but such that the Larmor radius is of the order of or smaller than the mean free paths of the electrons responsible for the oscillations. The deHaas-van Alphen method can be used in principle to obtain low temperatures (M. Ya. Azbel'). Another theoretical paper (G. A. Gogadze, F. Yu. Itskovich, and I. O.

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Kulik) is devoted to quantum oscillations of the cold-emission current of metals in a magnetic field. Two papers dealt with an investigation of the Fermi surface by the cyclotron resonance method — studies of the anisotropy of the effective masses of electrons in zinc (V. P. Naberezhny*kh and V. L. Mel'nik) and in aluminum (V. P. Naberezhny*kh, V. L. Mel'nik, I. M. Glazman, A. I. Kononenko). V. G. Peschanskiy and D. S. Lekhtsiyer investigated theoretically the possibility of observing cyclotron resonance in a metal in an inclined magnetic field. The galvanomagnetic properties of Re and Be were discussed in a paper by N. Ye. Alekseyevskiy and V. S. Yegorov. The galvanomagnetic properties of Pd were investigated by N. Ye. Alekseyevskii, G. E. Karstens, and V. V. Mozhayev.

The effect of pressure on the galvanomagnetic properties of Zn and Cd was investigated by Yu. P. Gaydukov and E. S. Itskevich. B. S. Borisov, N. V. Volkenshteyn, P. S. Zy*ryanov, and G. G. Taluts investigated the current-voltage characteristics of bismuth in a magnetic field at helium temperatures. I. O. Kulik investigated the de-

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pendence of the velocity of sound in a metal on the magnetic field and on the frequency of the sound. K. B. Vlasov and B. N. Filippov considered the possible rotation of the plane of polarization of ultrasound in magnetically-polarized metals. A paper by I. M. Lifshits was devoted to an explanation of the structure of the energy spectrum of impurity bands in unordered solid 3 lutions. The absorption of the electromagnetic field by a metal is considered in another paper by I. M. Lifshits (with M. I. Kaganov). V. G. Lazarev, A. I. Sudovtsev, and F. Yu. Aliyev determined by direct measurements the electronic component of the thermal expansion coefficient for iron and nickel. R. N. Gurzhi has shown that at sufficiently low temperatures the interelectron collisions which are not accompanied by umklapp can greatly change the electric conductivity and can lead to a temperature minimum of the resistivity. B. I. Verkin, L. B. Kuzmicheva, and I. V. Svechkarev investigated some electronic properties of indium alloys. A. I. Belyayeva, V. V. Yeremenko, and $\tilde{\lambda}$. I. Zvyagin investigated the absorption spectra of antiferromagnets.

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L. S. Lukoshkin developed a method for determining some characteristics of the lattice and of the local center in a nonmetallic crystal from the form of the light-absorption bands. A paper by B. L. Timan deal: with the absorption of high-frequency transverse sound in dielectrics at low temperatures.

Yu. G. Litvinenko, V. V. Yeremenko, and Yu. A. Popkov investigated the influence of strong magnetic fields (up to 200 kOe) on the absorption structure in the region of the 5 5/2 \rightarrow 6 3/2 transition in MnF $_{2}$ crystals below the Neel point for different field orientations. The same authors dealt also with the Zeeman effect in crystals of cadmium sulfide. Yu. A. Bratshevskiy, A. A. Galkin, and Yu. G. Litvinenko reported on resonant absorption in InSb by band carriers. A study of the acousto-electric effect in semiconductors was reported by S. V. Gantsevich and V. L. Gurevich. Two papers by R. N. Gurzhi concerned transport phenomena in solids. The first dealt with the in-

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fluence of anharmonisms of higher order on transport processes in solids. In the second it was shown that collisions between the quasiparticles (phonons, spin waves), not accompanied by umklapp, hinder greatly the process of momentum transfer from the quasiparticle gas to the boundaries in sufficiently large and pure specimens. A. V. Voronel', V. A. Popov, V. G. Simkin, Yu. R. Chashkin, and V. G. Snigirev measured the specific heat of oxygen and argon near the critical point. M. Ya. Azbel', A. V. Voronel', and M. Sh. Giterman proposed a theory for the critical point, in which the initial pre-, mises are the experimental data of the preceding work. K. K. Rebane, V. V. Khizhnyakov, and E. D. Trifonov reported a theoretical . investigation of the vibrational structure of electron-vibrational bands. A. V. Leont'yeva, A. I. Prokhvatilov, and V. V. Pustovalov studied the temperature dependence of the hardness of polycrystalline methane and ammonia. Neutron diffraction patterns of solid oxygen were discussed by R. A. Alikhanov.

A special session was devoted to cryogenic techniques.

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Great interest was aroused by the paper of B. I. Danilov on the possibility of gas lubrication of a piston of a helium refrigeration motor. Several papers were devoted to hydrogen liquefiers, compressors and vacuum installations, and also to devices used in bubble chambers. A paper by M. P. Orlova, D. N. Astrov, and L. A. Modevedeva dealt with the establishment of a thermodynamic temperature scale in the 4.2--10K range. The secondary instruments were resistance thermometers made of single-crystal germanium doped with antimony, developed by VNIIFTRI in conjunction with GIREDMET. An international comparison of temperature scales was discussed by D. I. Sharevskaya, D. N. Astrov, and M. P. Orlova. The comparison was made at the National Physics Laboratory (England) and at VNIIFTEI. It was established that the discrepancy in electrical measurements made in different laboratories does not exceed 0.002K in its temperature equivalent. In the final plenary session, representatives of individual sections presented reviews of the most interesting com-In the concluding remarks, the chairman of the Scientifmunications.

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ic Council of the problem of "Low Temperature Physics," corresponding member of the Academy of Sciences SSSR, N. E. Alekseyevskiy, summarized the result of the conference.

ASSOCIATION: None

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Γ	L 13632-66 EWT(d)/EWT(n)/EPF(n)-2/EWP(t)/EWP(b)/EWP(b)/EWA(c) IJP(c) L 13632-66 EWT(d)/EWT(n)/EPF(n)-2/EWP(t)/EWP(k)/EWP(b)/EWA(c) IJP(c) SOURCE CODE: UR/0053/65/087/004/0723/0730 AUTHOR: Olekhnovich, N. H.; Anufriyev, Yu. D.; Parshin, A. Ya.
	ORG: none TITIE: Eleventh all-union conference on low-temperature physics 100 100 100 100 100 100 100 100 100 10
1	SOURCE: Uspekhi fizicheskikh nauk, v. 87, no. 4, 1965, 723-730 TOPIC TAGS: physics conference, low temperature physics, superconductivity, cryogenic engineering, thermodynamics, liquid helium, solid state physics, heat cryogenic engineering, thermodynamics, liquid helium, solid state physics, heat cryogenic engineering, thermodynamics, liquid helium, solid state physics, heat cryogenic engineering, current density, magnetic field, magnetoresistance, conductivity, superfluidity, current density, magnetic field, magnetoresistance,
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+	are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducting low-temperature research, and scientists from Fast Germany, Toland, are conducted by the scientists of the scientists from Fast Germany, Toland, are conducted by the scientists of the scientists from Fast Germany, Toland, are conducted by the scientists of the scientists from Fast Germany, Toland, are conducted by the scientists of the scientists from Fast Germany, Toland, are conducted by the scientists of the scientists from Fast Germany, Toland, are conducted by the scientists of the scientists of the scientists from Fast Germany, Toland, are conducted by the scientists of the scientis
	papers presented dealt with the properties of helium; superconductively papers presented dealt with the properties of helium; superconductively engineering, properties of condensed media; low-temperature thermodynamics, cryogenic engineering, properties of condensed media; low-temperature Council on Low Temperature and other problems. The chairman of the Scientific Council on Low Temperature Physics, N. Ye. Alekseyevskiy, discussed the state-of-the-art in low temperature physics and remarked on the fruitfulness of conferences in the area as well
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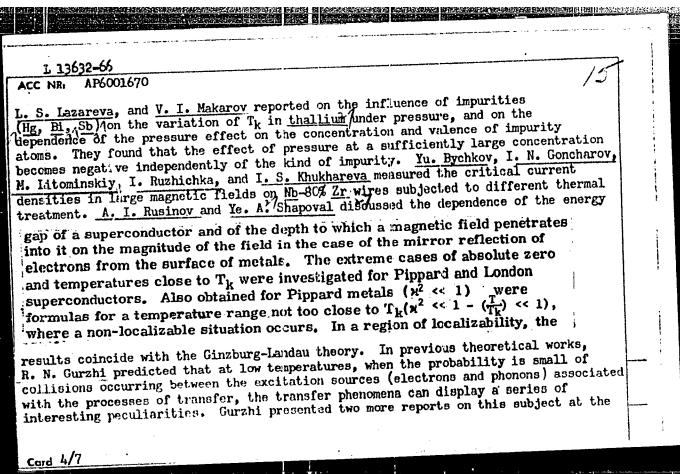
as the necessity for further coordination of the subjects being investigated. A group of Georgian physicists (R. A. Bablidze, G. V. Gudzhabidze, and Dzh, S. Tsakadze), working under the direction of Academician E. L. Andronikashvili, presented a review on the phase transition in rotating liquid helium. The first part of their paper was concerned with the relaxation of quantum eddies. The second part dealt with the generation of vortices during the cooling of rotating He below the λ -point. It was determined that during rotation of He II with an angular velocity corresponding to the maximum of the vortex damping, the disappearance of vortices during transition over the \u03b3-point proceeds very slowly. The time of the formation of vortices was shown to be $\tau = \tau_0 \exp \left[-(\omega - \omega_{0c})/a\right]$, is the critical angular velocity for a given vessel, w is the angular velocity of rotation, 7 % 900 sec, and a 7 1, 18 sec -1. It was also determined that the inner surface of the rotating glass does not exert any influence on the formation of the vortex filaments. G. A. Gamtsemlidze reported on results of measurements of the damping of torsional vibrations of a disk in He II after the stopping of the rotating liquid. Than kow physicists I. V. Bogovavlenskiy, N. G. Bereznyak, and B. N. Yesel son reported on an investigation of the state HeHe4 mixtures. They established that in a pressure range from 50 to 140 atm the
diagram representing the state of the He3-He4 mixture is of peritectic type. L. P. Mezhov-Deglin reported on the thermal conductivity of solid Hel (whose properties are being intensively studied in Moscow) in a temperature range from 0.5 to 2.5°K and Cord 2/7

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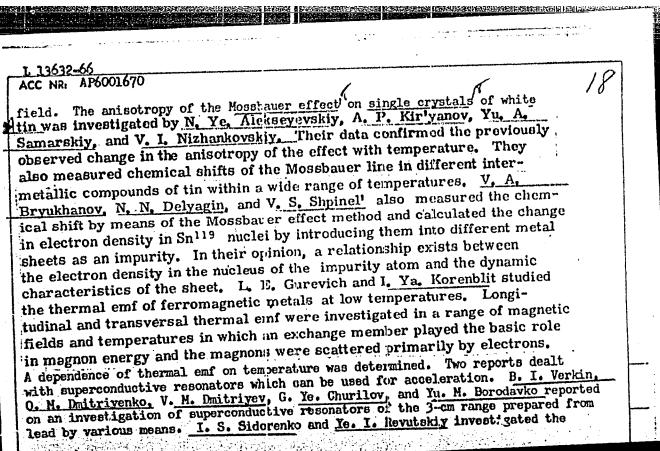
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pressures up to 185 atm. The maximum values for thermal conductivity were approximately three times higher than the best results obtained previously, which attests to the high quality of the crystals investigated. R. N. Gurzhi discussed his theory describing the dependence of thermal conductivity of such crystals on temperature. Kapitsa's jump on the He4-copper boundary was also surveyed in this work. The superfluidity of the light isotope He3 was treated in a report by V. P. Peshkov. In experiments with three-staged magnetic cooling of a block of paramagnetic salt, having liquid He 3 in its pores, Peshkov showed that at a temperature of 0.0055°K the specific heat of He³ has a maximum. Such behavior of the specific heat is attributed to the phase transition of He3 into a new state. A rather large number of papers was devoted to superconductivity. N. II. Brandt and N. I. Ginzburg investigated the influence of high pressures (up to 30,000 atm) on the superconductivity properties of various metals (The nontransient metals (Cd, Sn, In) display a decrease of Tk when the pressure decreases, while dhk/dT Tk remains constant, thus indicating that the density of states N(O) on the Formi surface is constant. that the density of states N(O) on the Fermi surface is constant. A decrease of Tk at N(O) = const can be linked with a decrease of the electron-phonon interaction parameter in the microscopic theory of superconductivity. Another mechanism apparently takes place in the transition metals (Zt, Ti). Here, an increase in dHk/dTk Tk and T1 when the pressure increases can be observed. It can thus be concluded that N(O) increases when the pressure increases, T. A. Ignat' yeva, B. G. Lazarev, Cord 3/7



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conference. In one report, the high-frequency properties of very pure metals were investigated at low temperatures. Apparently, electron-phonon processes not associated with transfer processes exert a substantial influence on the skin-effect. In particular, a wide range of frequencies appears in which the surface impedance depends on the frequency and the temperature, unlike the general cases of normal and anomalous skin-effect. V. L. Gurevich.
V. M. Muzhdaba, R. V. Parfenyev, Yu. A. Firsov, and S. S. Shalyt submitted a report on the experimental observation of a new type of oscillations of magnetoresistance of indium electron antimonide. The physical basis of this phenomenon is associated with resonance scattering of the current carriers on optical phonons in strong magnetic fields $\Omega_{\tau} >> 1$, where Ω is a cyclotron frequency and τ is the relaxation time of conduction electrons. On diagrams of the transverse and longitudinal magnetoresistances, the authors discovered a series of oscillation extremums periodic with the reverse field. The period of the oscillations is in a good agreement with the theoretical formula. L. E. Gurevich and B. L. Gel'mont established that in metals and semimetals when there is a temperature gradient a new type of wave appears at low temperatures, the so-called thermomagnetic waves (TMW). TMW were investigated both in the presence and in the absence of an external field. The conditions for a weak attenuation without a magnetic field were found. When an electromagnetic wave is incident on a body which has a temperature gradient, the refracted wave can become an amplifying wave if there is a magnetic Card 5/7



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ACC NR: AP6001670 high-frequency properties of lead superconductive films deposited on c carrying surfaces of copper resonators. [FSB: v.2, no. 2]	
SUB CODE: 20 / SUBM DATE: none	
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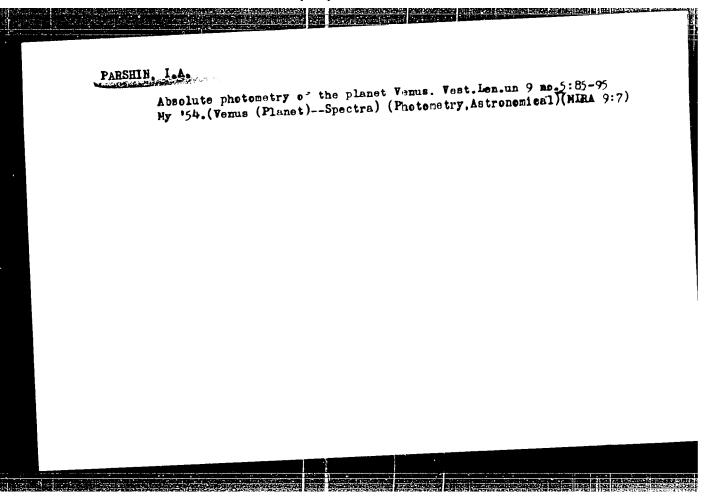
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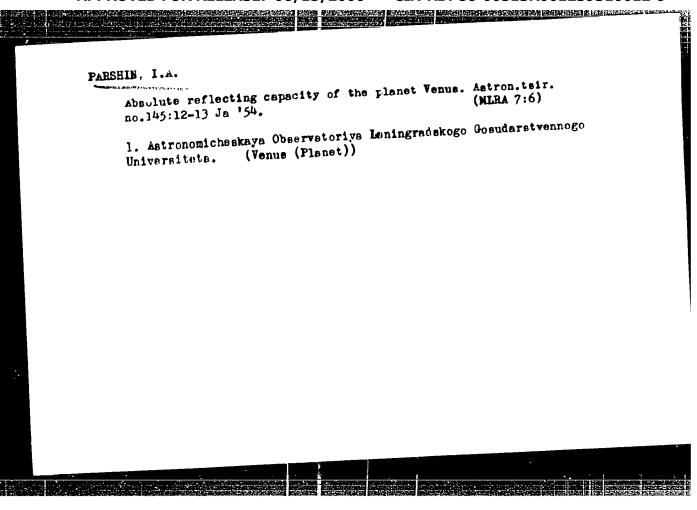
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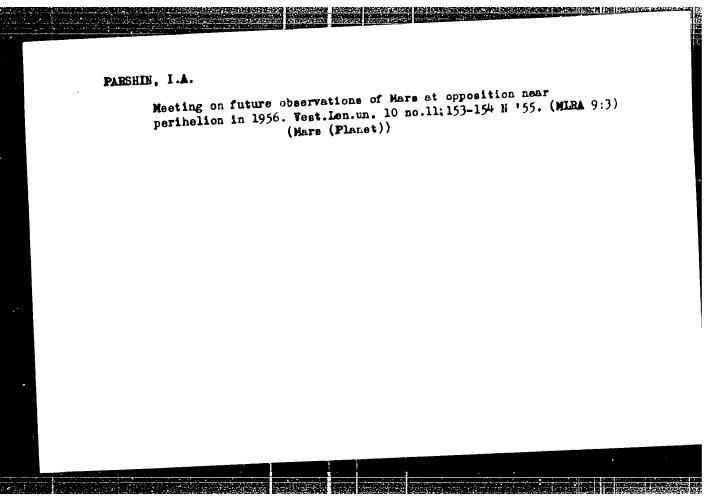
PAFSHIN, I. A. - "Investigation of the planet Venus in 1946", Vesnik Leningr. un-ta, 1948, No. 12, p. 144-46.

S0: U-4631, 16 Sept. 53, (Letopis 'nykh Statey, No. 24, 1949).





PARSHIN, 1.A. Effect of photographic irradiation on the phase of a planet. Astron.tsir. no.158:10-11 Ap '55. (MIRA 8:9) 1. Astronomicheskaya chservatoriya Leningradskogo Gosudarstvennogo universiteta. (Planets--Brightness) (Astronomical photography)



PARSHIN, I.A. Astronomical sub-comission proceedings of the 12th scientific research session of Leningrad University. Vest. Len. up. 11 no.13: (MLRA 9:10) 152-154 '56. (Leningrad--Astronomy--Congresses)

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AUTHOR: Parshin, I. A.

TITIE: Experience in the study of the polarization of light from the moon, terrestrial rocks and meteorites

SOURCE: Leningrad. Universitet. Uchenyye Rapiski, no. 323, 1964. Seriya stronomichenkoy observatorii, v. 20, matematicheskikh nauk. no. 37. Trudy astronomichenkoy observatorii, v. 20, /25-/35

TOPIC TAGS: moon, light polarization, metaorite, terrestrial rock, lunar surface, telescope

ABSTRACT: In order to determine the nature of various parts of the lunar surface it is of great importance to study the polarization of light from details of the lunar disk and compare these data with similar data for terrestrial rocks. The lunar disk and compare these data with similar data for terrestrial rocks. The lunar disk and the investigations of the polarization of light from terrestrial author reports on his investigations of the polarization of light from terrestrial rocks, meteorites and the lunar surface. In a study of the lunar polarization it rocks, meteorites and the lunar surface. In a study of the lunar polarization it important to use a telescope which is free from parasitic polarization caused which is free from parasitic polarization caused that the reflector. The telescope used was the refractor of the astronomical observatory a reflector. The telescope used was the refractor of the astronomical observatory at Leningradskiy gosudarstvennyy universitet (Leningrad State University) (225-mm)

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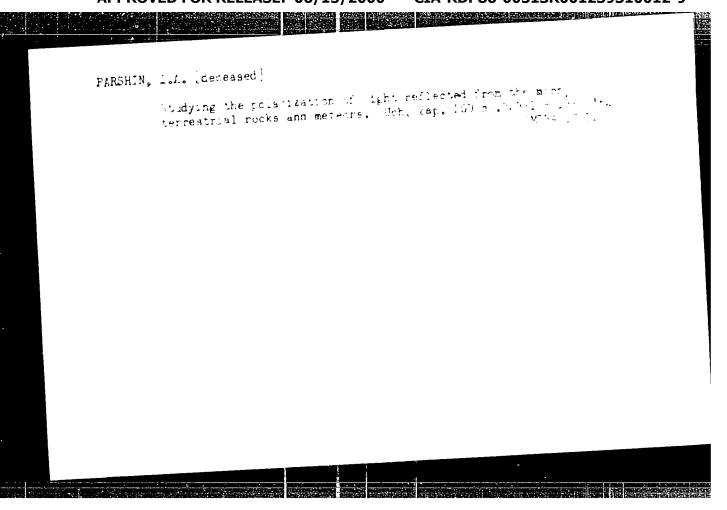
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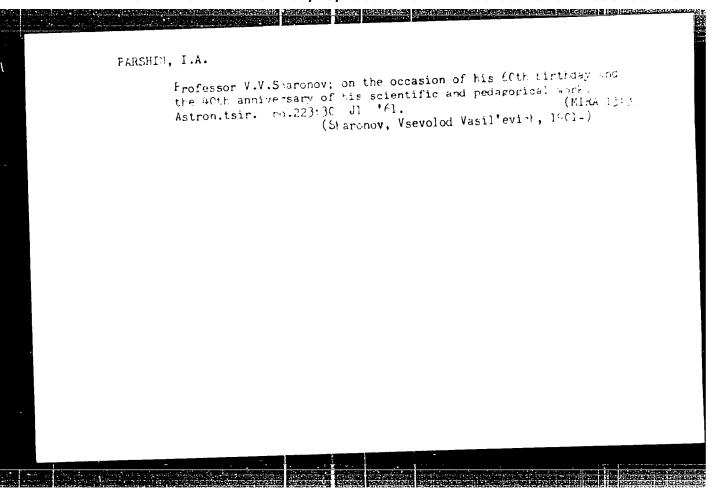
objective, 3,200-mm focal length). The results reported confirm earlier conclusions that the polarization of lunar light is a function of phase angle. Table 1 in the text gives data on polarization of 19 features on the lunar surface. The degree of polarization for the teas, having a dark surface, is greater than for the continents. Maximum polarization for the seas is 28%; for the continents, it is 23%. A special laboratory apparatus was used to study the polarization of light from rocks and meteorites. It consisted of a small circular box filled with sand, rotating on its axis; the sample was placed in this box. Smooth surfaces of the samples were illuminated by an incandescent bulb. The polarizing effect of 32 terrestrial rocks and 6 meteorites was measured. The curves of polarization were in general qualitatively the same as for lunar features. With an increase of phase angle and degree of polarization increases gradually, attains a maximum and then decreases. The degree of polarization of light from most rocks is considerably greater at the maximum than is true for lunar features; the degree of polarization is usually displaced in companison with lunar features by 20-300 in the direction of greater phase engles. Measurement of the polarization of light reflected from meteorites has shown that the moltim crust has a very high polarizing activity and the natural discontinuity is approximately the same as for terrestrial rocks. The studied polarisation curves indicate no similarity between the investigated rocks and meteorities and the lunar surface.

Card 2/3

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	oskava Observatoriya, Lunin	gradskiy universitet
ASSOCIATION; Astronomical (Astronomical observator)	, Leningrad university)	
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	OTHER: 005	
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		선생·사이 경영병, 등로 전 교육 이 경기에 전하여 이번 보는 사람이 다른다.





"APPROVED FOR RELEASE: 06/15/2000

PARSHIE, Igor' Aleksandrovich; MEL'RIKOV, O.A., prof., nauchnyy rod.; UTA. TSOV, O.A., red. izd-va; GU. DZETYEVI, A.M., tekhn. red. [In the world of the planets] I mire planet. Leningrad, Co-vo po rasprostraneniiu polit. i nauchn. znanii itSFSt, 1961. 50 p. (MIRA 15:5) 1. Chlen-korrespondent Akademii nauk SSSR (for Molinikov). (Solar system)

PARS	HIN, I.A.	_			
	Absolute clouds.	Issl. ser. obl. n (Twilight (Clouds)	twilight sky and to.1:77-84 '60.	noctilucent (MIRA 14:8)	
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S 169/61 000/009/041/056 D228/D304

3.5120

AUTHOR:

Parshin, I. A.

TITLE :

Absolute photometry of the crepuscular sky and noctilucent

rlouds

PERIODICAL:

Referativnyy zhurnal. Geofizika no. 9, 1961, 17, abstract 96143 (V ab. Issled serebristykh oblakov,

no. ! Le, Leningrad un t, 1960, 77-84)

TEXT: Photometric observations of the crepuscular sky and noctilucent clouds, undertaken in the summer of 1959 at the atmosphero-optics station of the Astronomicheskaya observatoriya Leningradskogo universiteta (Astronomic Observatory of Leningrad University), are described. The aim of the photometric observations of the crepuscular segment was to obtain the distribution of the brightness, expressed in absolute units, for different depths of the sun's sinking below the horizon. A refractor with a geniculate optical axis-having a lens diameter of 55 mm and a focal length of 550 mm—was used in the work. For brightness measurement, points were

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Card 1/5

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Absolute photometry of

chosen on the celestial sphere at verticals across 10° in azimuth ($\Delta=10,\ 20,\ 30,\ 40^{\circ}$) to the east and west of the vertical situated beneath the sun's horizon and across 5° in elevation (to the elevation $h=50^{\circ}$). A wedge photometer was mounted on the refractor's ocular tube. The ratio of the brightness of the sky to that of a standard light-source, whose absolute brightness value was known was determined in order to express the brightness of the crepuscular sky in (aboratory units of brightness—in nitide. The processing of the obtained material was carried out according to the formula:

 $lg B = lg B_{sr} - q (x_1 - x_2) - D_{fsr} - D_{fsk}$

where B is the sky's brightness in nitide. B_{gr} is the brightness of the standard, q is the constant of the photometer's widge, \mathbf{x}_{λ} is the reading on the wedge's scale when observing the sky. \mathbf{x}_{2} is the reading on the wedge's scale when observing the brightness standard, \mathbf{x}_{fgf}

Card 2/5

29982 S/169/61/000/009/041/056 D228/D304

Absolute photometry of ...

the optical density of the gray light-filter employed when observing the brightness standard, and $D_{f \in k}$ is the optical density of the gray light-

filter used when observing the sky. Very bright noctilucent clouds were observed in a cloudless sky on July 16, 1959. They had the form of bands with multiple backles and eddies. The brightness measurements of noctilucent clouds were carried out with the same equipment, by which the observations of the crepuscular sky were made. The apparent brightness of a noctilucent cloud is composed of the true brightness -- caused by the dispersion of light in the cloud-and the brightness of the background sky, which is superimposed on the cloud's true brightness. For the latter's calculation, the brightness of sky points located near the cloud's upper and lower boundaries as measured. The half-sum of the brightnesses which was calculated from the apparent brightness in order to obtain the cloud's true brightness was taken from the derived values. The method of photometric standardization, in which the area of the moon's surface near the point of intersection of the bright arc of the limb with the equator of intensity was taken as the brightness standard, was applied in respect of noctilucent clouds. Computation of the visible albedo

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29882 S/169/61/000/009/041/056 D228/D304

Absolute photometry of .

A of noctilucent clouds was made by the formula:

$$A_{r} \cdot A_{1} \left(Q^{\kappa_{c} \cdot \kappa_{1}} \cdot Q^{\kappa_{sk} - \kappa_{1}}\right) - \frac{T_{r}}{T_{r}}$$

X

where $Q=10^{-q}$. At is the moon's visible albedo, x_{sk} is the scale reading at the time of sighting on the sky's background, x_c is the scale reading when sighting on noctificent clouds. x_1 is the scale reading when sighting on the moon's limb, T_1 is the passage coefficient of the light-filter employed to measure the brightness of the moon's limb, and T_c is the passage coefficient of the hight-filter used for measuring the brightness of the noctificent clouds and sky. The absolute value for the brightness of noctificent clouds—expressed in nitids—was obtained through multiplying the magnitude of the visible albedo by the

Card 4/5

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S/169/61/000/009/041/056
D228/D304

brightness value of an absolutely white surface situated normal to the solar rays (in the case of noctilucent clouds, this value equals 41,600 nit). Abstracter's note: Complete translation.

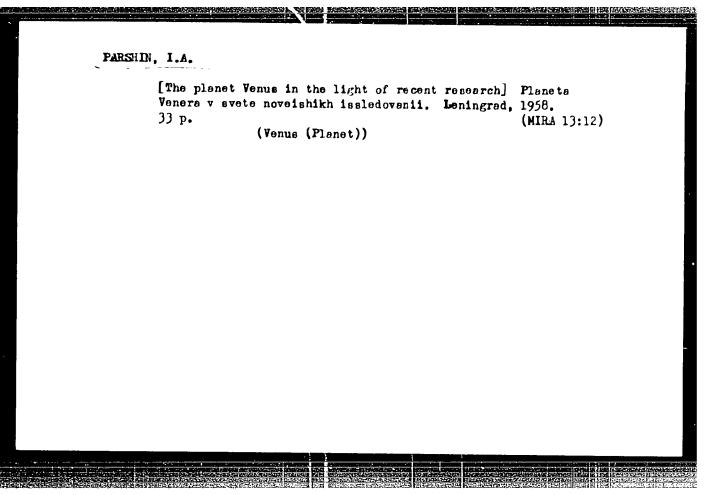
APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239310012-9"

Card 5/5

PARSHIM, Igor' Aleksandrovich; SMAHONOV, V.V., prof., red.; SAMSONENEO, L.V., red.; AKSEL'ROD, I.Sh., tekhn.red.

[The moon] Iana. Pod red. V.V.Sharonova. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 53 p. (Populiarnye lektsii po astronomii, vyp.10).

(Hoon) (Lunar probes)



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Parsnin, ig r' Aleksandr voch

Line (The M of Mer w. Firmergiz, 1901. 1991. Series: Equiparage learns: peatron mil., vyp. 1970 for a reples printed. [Xer volyy]

Ed. (Title page): / V. Sharinit. Prifessir; Ed. (Inside b. k): L.V. Dams denk , Tech. Ed.: J.Sh. Aksel'rid.

PURE SET This book is intended for the general roader interested in the study former $\pi_{\rm c}$

OVERAGE: The book discusses the physical nature of the more and the motor of the more as a relestial tody. The author deals with the measurement of distance from the earth to the more and the motion of the moon through the skies. He also describes the structure of the moon's surface, the lunar seas mountains, craters, and ther landforms. No personalities are mentioned No references are given.

TABLE OF CONTENTS:

Fareword

69864 sov/35-59-9-7235

3.1550

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 9, p 58 - 59 (USSR)

AUTHOR:

Parshin, I.A.

TITLE:

A Preliminary Communication About the Photographic Observations of Mars

During the Period of the Great Opposition in 1956.

PERIODICAL:

Astron. tsirkulyar, 1958, August 26, Nr 194, pp 6 - 7

ABSTRACT:

Photographic and visual observations of Mars were carried out with the normal astrograph of the Tashkent Observatory by the expedition of the Astronomic Observatory of the Leningrad University. The examination of III negatives and drawings, obtained with the aid of a guide with a magnification of 200% has shown the clear visibility of the South polar cap in mid-August. On photographs taken up to August 28 inclusively, it had a greater brightness and larger dimensions in violet rays (430 m μ) than in green (545 m μ) and red (630 m μ) rays. From August 30 the pclar cap stopped being visible; on September 9 it appeared once again in the form of an indistinct object encircled by a faint rim. The visual and photographic observations show that certain regions on Mars, situated in

Card 1/2

69864 \$0**V/35-59-9-**7235

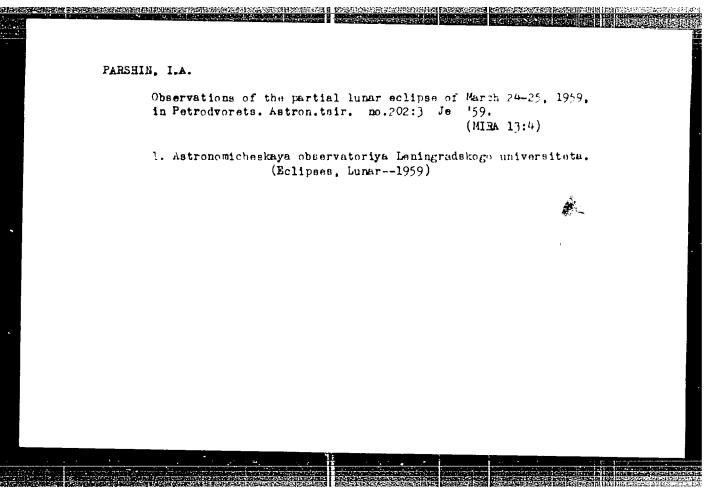
A Preliminary Communication About the Photographic Observations of Mars During the Period of the Great Opposition in 1956

the Southern hemisphere, were unusually bright, and moreover, their brightness changed visibly with time. So from August 26 to 29 inclusively, the Argyre and Noachis regions were anomalously, extremely bright. Since the relation of the brightness of these regions and the polar cap in various sections of the spectrum was different, the author concluded that the nature of the bright cover which stipulated the brightening of Argyre and Noachis is different from the nature of the polar cap. After August 30 the contrast degree of individual details decreased as a result of a yellow haze in the atmosphere of Mars. A morning rainbow is visible on photographs taken in violet rays from August 19 to 30. It is a bright diffusion band on the edge of the disk, being formed during sunrise.

N.B. Perova

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Card 2/2



69864 sov/35-59-9-7235

Translation from: Referativnyy zhurnal, Astronomiya 1 Geodeziya, 1959, Nr 9, p 58 - 59

(USSR)

Parshin, I.A. AUTHOR:

A Preliminary Communication About the Photographic Observations of Mars

During the Period of the Great Opposition in 1956. TITLE:

Astron. tsirkulyar, 1958, August 26, Nr 194, pp 6 - 7

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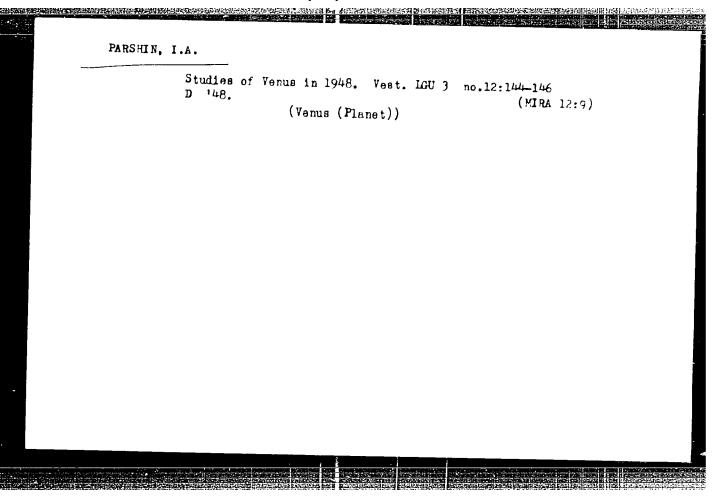
photographic observations show that certain regions on Mars, situated in

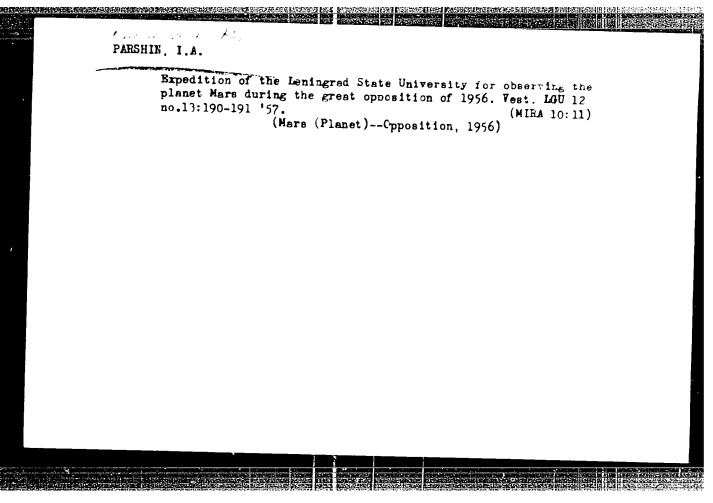
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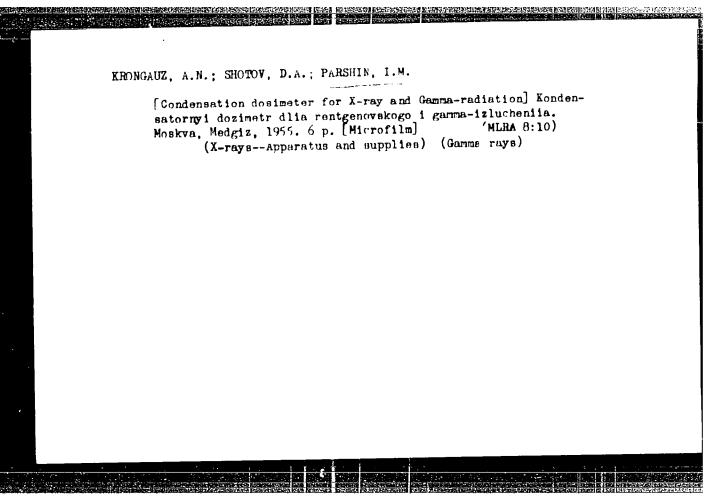
PARSHIN, I.A.

Preliminary information on photographic observations of Mars during the favorable opposition of 1956. Astron. tsir. no.194:6-7 Ag 158. (MIRA 12:12)

1.Astronomicheskaya observatoriya Leningradskogo universiteta. (Mars (Planet)--Opposition, 1956)







LAGUHOVA, I.G.; KOZLOVA, A.V.; PERVOVA, A.K.; RIMMAN, A.F.; DMOKHOVSKIY, V.V.; PARSHID, I.M.

Rational system of planning a department and protection during work with closed radioactive preparations. Med.rad. 7 no.6:69-76 Je 1/2. (MIRA 15:8)

1. Iz Gosudarstvennogo nauchno-issledovatel'akogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya RSFSR 1 Moskovskcy gorodskoy bol'nitsy No.40. (RADIOLOGY, MEDICAL-SAFETY MEASURES)

KRONGAUZ, A.N., PARSHIN, J.M., BROKSH, V.H., GROMOV, Yu.D., YAKUNIN, V.F.

Universal condenser desimeter for roentgen and gamma irradiations. Vest. rent. 1 rad. 30 no.5360-63 S-0 '62. (MIRA 17:12)

l. In dominetricheskogo otdela (zaveduyushchiy - dotsent A.N. Krongauz) i eksperimental'nykh masterskikh (direktor I.M. Parahin) Gosudarstvennogo nauchno-jasledovatel'skogo rentgeno-radiolo-gicheskogo insvituta (direktor - prof. I.G. Lagunova).

PERESLEGIN, I.A.; KORNEV, I.I.; PARSHIN, I.M.

Improved rotary chair for GUT-Co-400 equipment. Vest.rent.i rad. 35 no.1:50-51 Ja-F '60. (MIRA 13:6)

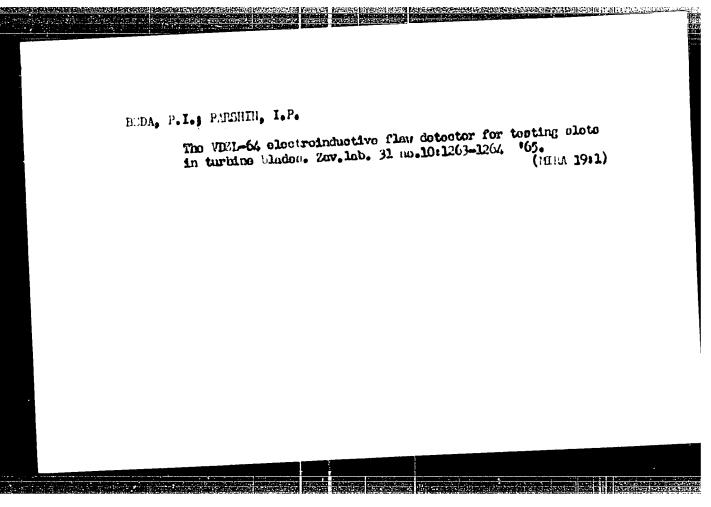
1. Iz radiologicheskogo otdela (zav. - prof. A.V. Kozlova) i eksperimental'nykh masterskikh (dir. D.S. Zhukhanenko) Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologich-skogo instituta (dir. - dotsent I.G. Ingunova) Ministertva zdravockhraneniya RSFSR.

(RADIOTHERAPY equip. & supply)

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2/2 Card



PARSHIN, I. P., Engineer

"Investigation of Temperature, Speed, and Dynamic Relations, as Well as Regularities of Tool Wear in Gear Milling." Sub 76 Nov 51, Military Order of Lenin Academy of Armored and Mechanized Troops of the Soviet Army inen. I. V. Stalin

Dissertations presented for science and engineering degrees in Moscow during 1911. SO: Sum. No. 480, 9 May

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9.	Monthly	List	<u>of</u> !	Russian	Accession	<u>s</u> , Libr	ary of	Congress	,	<u>r 1957</u>	, Uncl.
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L 3855-66 EWT(d)/EWT(m)/EWP(w)/EWP(f)/EWP(c)/EWP(w)/T-2/EWP(k)/EWP(1)/ETC(m)WW/EM ACCESSION NR: AP5024826 UR/0032/65/031/010/1263/1264 620.179.1-1.05 52 8 Beda, P. I.; Parshin, I. P. AUTHOR: 4456 -----The VDZL-64 electric induction flaw detector for inspection of vane channels SOURCE: Zavodskaya laboratoriya, v. 31, no. 10, 1965, 1263-1264 TOPIC TAGS: turbine blade, flaw detection, metal inspection ABSTRACT: The article is a description of the VDZL-64 flaw detector patented in 1962 (Author's Certificate No. 156735 published in Byulleten' isobreteniy No. 16, 1963). The instrument is designed for detection of surface flaws in nonmagnetic refractory materials in the lock channels of turbine blades in power machines. The instrument is sensitive to surface cracks 0.6 mm long and 0.15 mm deep with an open-

ing of 0.0005 mm and greater. The device also detects subsurface nonmetallic inclusions to a depth of 1 mm. The flaw detector weighs approximately 20 kg, operates from a 220/127 v, 50 cps or 115 v, 400 cps power supply and generates eddy currents with a frequency of 300 kc. The device operates on the principle of comparing two symmetrically located channels on a single blade using two induction coils connected

Cord 1/2

L 3855-66

ACCESSION NR: AP5024826

in resonance circuits in a differential measurement system. The output signal, which is proportional to the difference in the voltages of the tank circuits, is fed to a microammeter with a 200-0-200 scale. A flaw in any of the channels being inspected changes the impedance of the pickup, which alters the voltage in the corresponding tank circuit, i. e. the measurement circuit is thrown out of balance. The direction of needle deflection indicates which channel has the flaw. A detailed description of the mechanical part of the instrument is given with illustrations. Operational experience with the flaw detector has shown that it is an effective tool for revealing dangerous flaws in vane channels. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 003

OTHER: 000

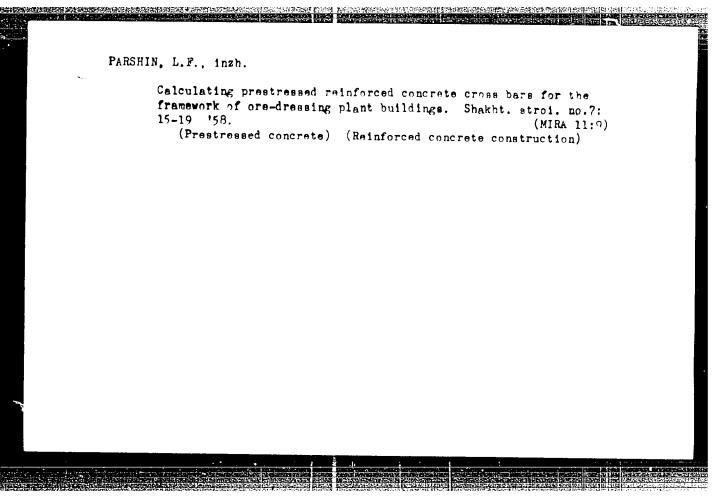
Cord 2/2 had

DANTYELYAN, A.M. doktor tekhn.nauk, prof., zasluzhennyy dew.tel' nauki i teknniki RSFSR; FARSHIN, I.P., kand.tekhn.nauk, lotsent

Effect of the material of the cutting part and the cross section of the cutting tool on thermal deformations of the wol. Trudy M. Il no.53-5-7'62.

(Metal-cutting tools—Testing)

(Metal-cutting tools—Testing)



	1.	PAUCHIN, K.I.
		UUSR (6:0)
	<i>l.</i> •	Nedicine, Intustrial
	7.	Work experience of the thoragentic division of the residual and sanctar of Flant-ment at the Grekhevo-Theve Dotton Johning, Nev. drav. 12 no. 1, 177.
	9.	Monthly List of Russian Accessions, Library of Congress, will 1983, Uncl.
n e		

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PAUSILE, E.I., zesluzhennyy vrack; POMMANTOW , 7.1.; IVEM SEE IM., 1.2.;

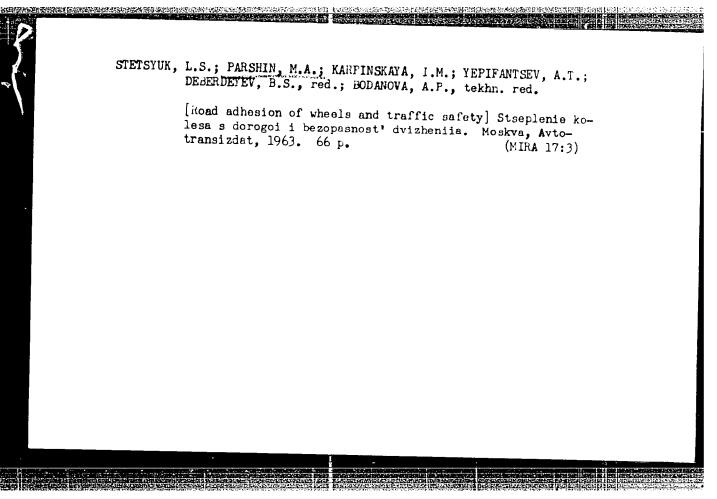
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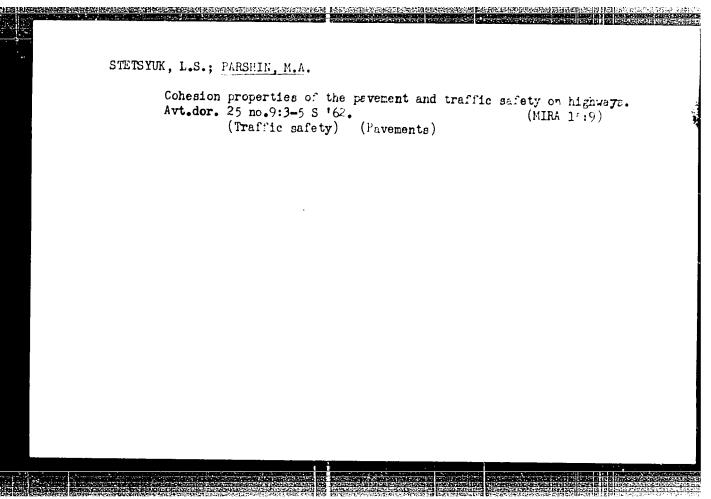
STETSYUK, L.; PARSHIN, M.; YEPIFANTSEV, A.

TERROLLE CONTROL OF THE STREET CONTROL OF TH

Traffic organization and safety. Avt.transp. 42 no.1:44-45 Ja (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.

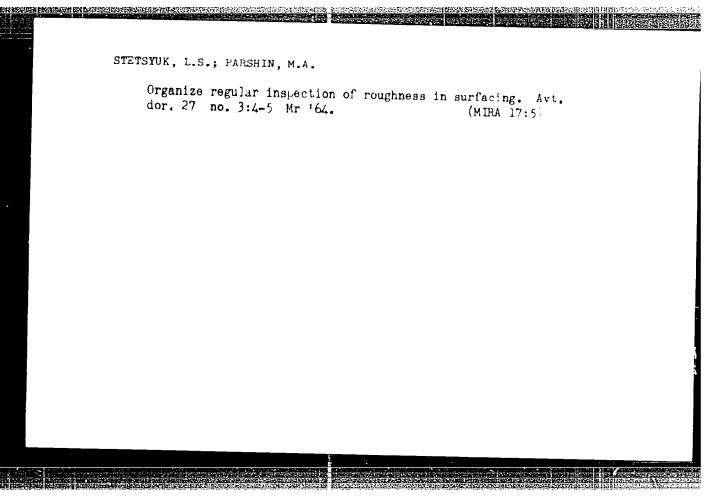




KLINKOVSHTEYN, G.I., kand. tekhn. nauk,; AKJENOV, V.A., inzh.;
SALKIG'YANTS, E.G., irzh.; JEUMOV, A.V., inzh.;
MARUSADZHYANTS, Zh.G., inzh.; TROSHINA, M.Ya., inzh.;
STETSYUK, L.S., inzh.; FALSHIN, M.A., inzh.; KAFFINGKAYA,
I.M., inzh.; FALSKEVICH, B.S., doktor tekhn. nauk;
ILAHIONOU, V.A., kand. tekhn. nauk; FOLTEV, M.K., inzh.;
KOGAN, E.I., inzh.; CHIGAREO, G.T., inzh.; KONONOVA, V.S.,
red.

[Traffic safety and safety measures in automotive transportation] bezopasnest' evizieniia i tekhnika bezopasnosti na avtomobil'nom transporte. Moskva, Transport, 1964. 74 p. (MIRA 18:1)

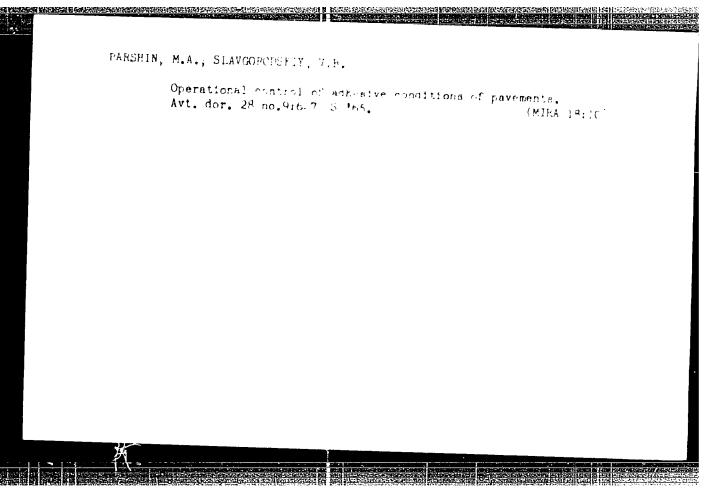
1. Moscow. Gosudarstvennyy nauchno-issledovatel'ski institut avto-mobil'nogo transporta. 2. Moskovskiy avtorekhanich skiy institut (for Fal'kevich). 3. Moskovskiy avtorebil'no-dorozhnyy institut imeni Molotova (for Ilarienov). 4. Vse-soyuznyy zaochnyy politekhnicherkiy institut (for Poltev).



VIKHOR, A.F., veterinarnyy vrach; PARSHIN, M.A., veterinarnyy vrach.

Perhydrol method of decomposing samples of canned meat. Veterinariia
33 no.8:70 Ag '56. (MIRA 9:9)

(Heat, Ganned--Analysis)



KUCH:ROV, P.M.; BYKOV, L.T.; KARPUZIDI, K.S.; MERLIN, V.M.; KUNITSA, N.K.;

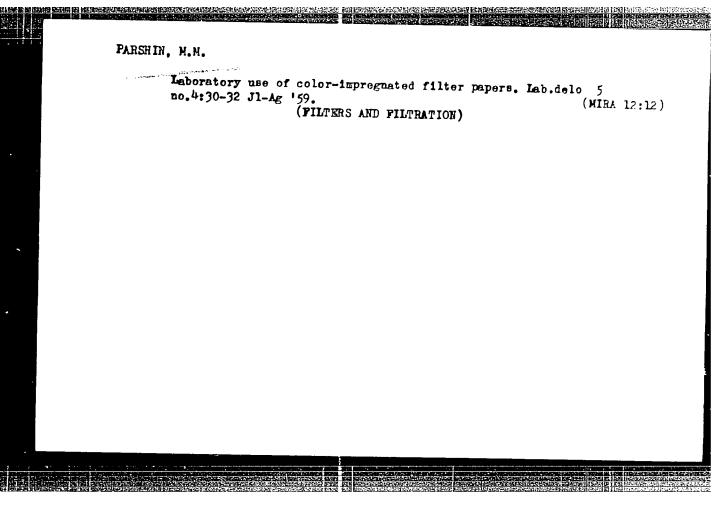
KAL'YANOVA, M.L.; PARSHIN, M.I.

Experience with the prevention of tularemia during an extensive epizeotic outbreak in rodents. Zhur. mikrobiol. epid. 1 immun. 29 no.833-7 Ag. '58.

1. Iz Ural'skoy protivochumnoy stantsii i Hostovskogo protivochumnogo instituta.

(TULAREMIA, prevention and control,

during extensive epizootic outbreak in rodents (Rus))



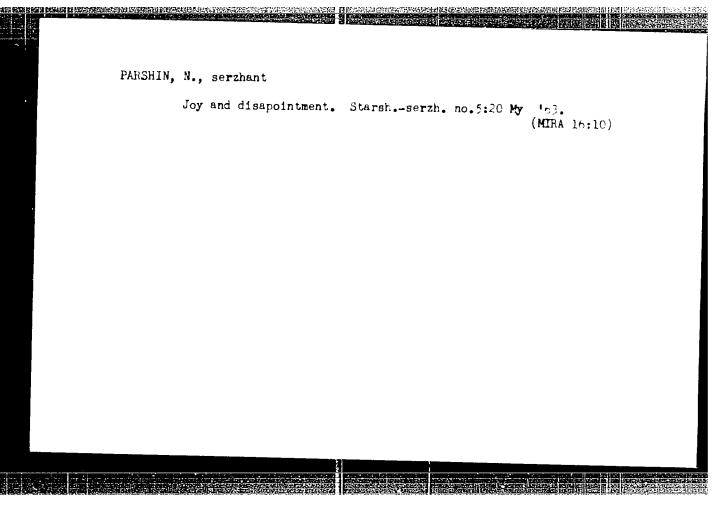
PARSHIN, M.Ya.; KRIVTSOV, G.F.; SLEDNEY, I.P., podpolkovník, red.;

MYAGNIKOVA, T.F., tekhn.red.

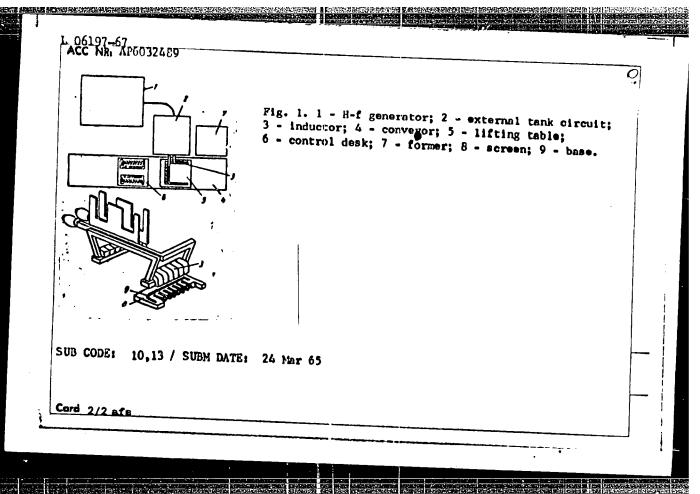
[Privileges, pensions, and side for servicemen and their families;
a handbook] L'goty. pensit i posobite voennosluzhaehchim i ikh
sem'lem; spravochnik. Moskva, Voen. izd-vo H-va obor. SSSR, 1958.
259 p.

(Pensions, Military)

(Pensions, Military)



4	SS_2/FHT(1)/FHP(v)/FHP(t)/FTI/EdP(k) DS/JD/HM SOURCE CODE: UR/0413/66/000/017/0030/0030
ICC MKI APOUS	2409
NVENTOR: Ale egorov, B. A. arshin, N. A.	kseyev, P. A.; Balashov, V. A.; Gershonok, M. I.; Grachev, I. M.; Kobyl'nitskaya, M. I.; Kozlov, D. A.; Lifshits, A. I.; Mondrus, D. B.; Rashevskiy, A. L.; Rivkin, A. E.; Tal'gren, A. A.; Khansuvarov, A. A.
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RG: none	Class 21.
TILE: Device	for high frequency soldering of lead-acid storage batteries. Class 21,
In 185300 Q	· · · · · · · · · · · · · · · · · · ·
SOURCE: Izobi	reteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 30
TOPIC TAGS:	metal soldering, storege battery
ABSTRACT: An soldering of S	Author Certificate has been issued for a device for high-frequency lead-acid storage batteries. The device contains he generator with ank circuit, a multiloop inductor with open ferrite magnetic circuits, a lifting table, a control dask, and an assembling-soldering former a magnetic screen fastered on a non-magnetic base. Orig. art. has:
	UDC: 6?1.352,2:621, 791.357;621.3. 029.5



PARSHIN, N.G.

USSR / Cultivated Plants. Coroals.

: Rof Zhur - Biol., No 8, 1958, No 34608 Abs Jour

Author Inst

Parshin, N. G.

: Variability of Morpho-Mological Symptoms in Titlo

Mhoat Under the Influence of Zonal Ecological

Conditions.

: Izv. AN Kaz88R, sor. biol., 1956, No 11, 23-35. Orig Pub

: Test zones were located in the mountains of Trans-Abstract

Iliyskiy Alatau (alt. 1709 m), the foothills (alt. 800 m) and in the Pribalkhashskiy desert. Under mountain conditions, the following results were noted: rotardation of development, increase of the vegetative mass, denseness, granulation and intensity of coloration of the

spike, as well as mealiness and increase in the

Card 1/2

30(1) 37/3 - - - 1/17

ATTHORS: Farshin, N.G. and Suvorov, N.I.

TITLE: The Transformation of Setaria Italian Into a New

Species of Setaric Viridia (Previous chenice scrame

v nevyy vii didhetinnika

PERIODICAL: Vestnik Akademii nauk Kesakhskov JJR, 1959, Nr.

pp 107 - 115 (USSR)

ABSTRACT: This is a report on an experiment corried out by the

Laboratory of Darwinism. Department of Botany of the Alma-Atinching ross is not venny peda richecking instructional Abaya Alma-Ata Disperseductor on Institute imeni Abaya Alma-Ala Dove remain imeni Abaya to ataly the influence of various solal ecological conditions on the growth of a plant with a previously impaired heredity. The primary material

was a seedman of Setaria Italiaa var.m charium A f. supplied in 1946 by the Alma-Atinokava and Jarota vennaya selektsionnaya stantsiya (Alma-Ata Utate

Selection Station). The experiment can be roughly Card 1/4

divided into two states. During the first state

517/11-1 -- -11/11

The Transformation of German Italian Into a New Species of Jethria Viridis

which severa the serioi 1 m-7 - 1 m-0, the scientists tried to impair the hereditary scalities of the plant, by success we annual sowing of the seeds union special conditions. The plants obtained by this procedure differed in several respects, a dwing as to their frightlity even pracemes similar to those of Detaria Italica var. longiseta Doell. One cluster, particularly fintlinguished by frightlity one country of rm, was selected and reparately threshed. The seeds, however, though differing clightly in size and intensity of accorner, remained typical seeds of the order any plant. During the following three years, these seeds were preserved in the latoratory. After this period, they were used as primary material for the second state of the experiment, characterized by the development of seeds and plants under various ecological conditions. The seeds were rown in a mountain zone (Trans-III Alatau), in the cultivity in

Card 2/4

The Transformation of Jetaria Italian Into a New Openie. of Jetaria Viridis

mone of Alma-Ata and in a levent ration so to of the Balkhack lake. The experience was an one with final success in last, when in the sultivation cane of Alma-Ata, alx clarts were delected from the generation of the new form of Setaria virilia, union had leveloped from the changed seeds found in the sxil alsesters of Setaria Italica. These plants were assuly distinguished from the other plants by their large size and the comparatively dark a los of a curve-retative uningenerative or and. The satisfication of the selected plants aboved a reat variety on the seed colors, the form of the midementary form of Setaria, in a stract to Detaria Italian and Detaria Virilia, according a read plants; by foliable entropy. As well as our interpolation of an algorith, the satisfication of the satisfication of the satisfication.

Card 3/4

The Transformation of Jetaria Italian Into a New Species of Jetaria Viridis

this form sentain much more albumen than the it we mentioned plants; the seeds of Jetaria Italian a nettain 1.90, Jetaria Viridis - 2.7 and the new form of Setaria - 74.4 w. There are higher owners, it also and for Joviet references.

Card 4/4

PARSHIN, N.O.

Variability of morphobiological characters in wheat brought about by zonal ecological conditions. Izv.AH Eazakh.SSr. Ser.biol. uc.ll: 23-35 '56.

(MLRA 10:2)

1. Enfedra botaniki Alma-Atinskogo pedagogicheskogo instituta im. Abeya.

(KAZAKHSTAH—NHKAT)

PARSHIM, N. G. Name

Effect of zonal ecological conditions on the morphology of the Graminae Dissertation

Degree : Cani Biol Sci

Acad Sci USSR, Inst of Genetics Defended At

Publication Date, Place : 1950, Alma-Ata

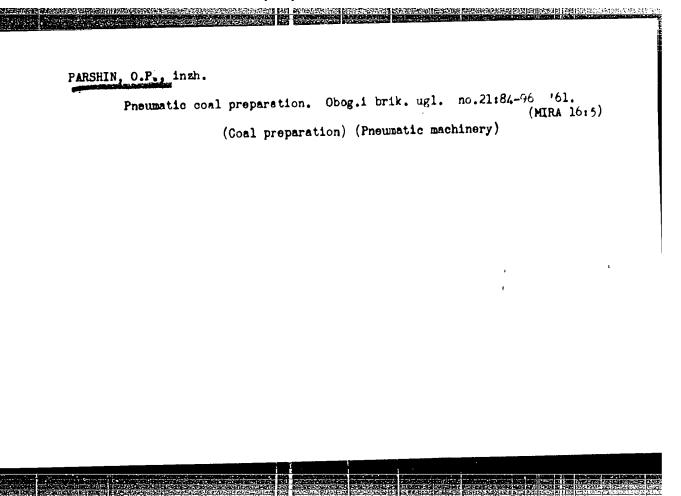
Source : Knizhnaya Letopis' No 5, 1957

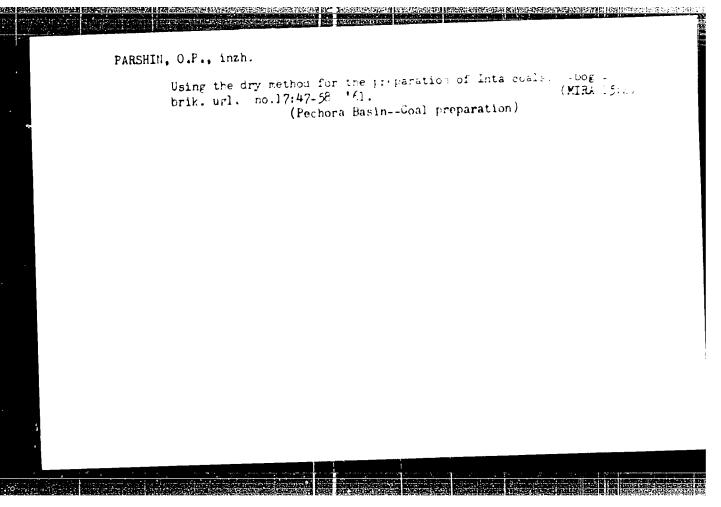
CIA-RDP86-00513R001239310012-9" APPROVED FOR RELEASE: 06/15/2000

KOLUZAYEV, A.D., inzh.; PARSHIN, N.M., inzh.

Mechanization of the process of brightening aluminum wars.

Mekh. i svtom. proizv. 10 no.3: 5-26 Ag *63. (MIRA 10:1)

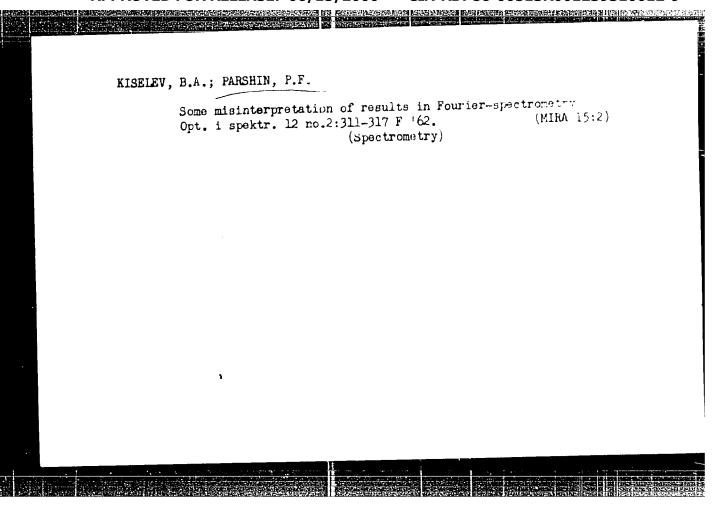


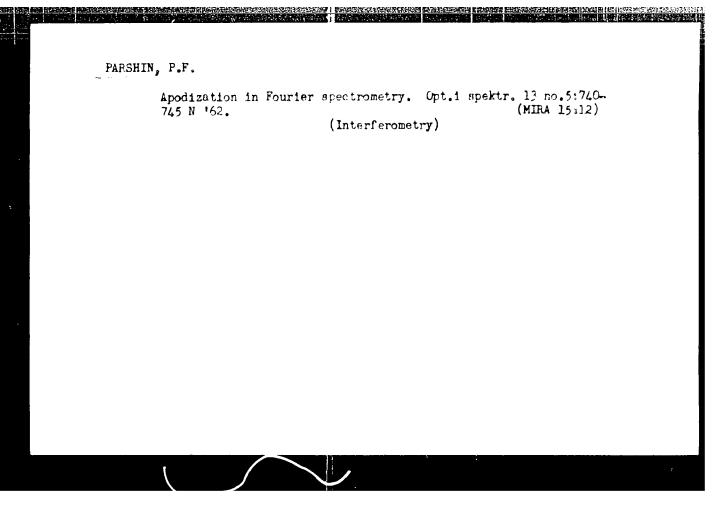


PARSHIN, P.; LEBEDEVA, A.

Profitable business. Zashch. rast. ot vred. i bol. 10 no.5:10 '65. (MIRA 18:6)

1. Predsedatel' kolkhoza imeni Kalinina, Lotoshinskiy rayon, Moskovskoy oblasti (for Parshin). 2. Starshiy agronom po zashchite rasteniy, kolkhoz imeni Kalinina, Lotoshinskiy rayon, Moskovskoy oblasti (for Lebedeva).





5/051/63/014/002/020/026 E039/E120

Parshin, P.F. AUTHOR:

Distortion of the intensity distribution in spectro-TITLE:

grams and its dependence on the size of the

interferometer outlet aperture when using the Fourier

spectrometry method

PERIODICAL: Optika i spektroskopiya, v.14, no.2, 1963, 301-303

An estimate of the distortion is given together with suggested methods of calculating it for different methods of TEXT: apodisation. For a unique interpretation of the intensity distribution in a spectral line of a spectrogram obtained with a known value of Ω it is necessary to introduce a correction coefficient η (Ω is the solid angle of the outlet aperture). The apparatus function is determined from Ω and the resolving power of the interferometer using the formulae:

 $i_m = \frac{1}{2f}$

where: D is the aperture diameter; f is the focal length of the Card 1/2

Distortion of the intensity ...

S/051/63/014/002/020/026 E039/E120

objective, $(\triangle \vee)_Q = 1/2L$, where L is the maximum path difference between the interfering beams. After calculating $\psi(\omega', 0)$ it is sufficient to multiply by 8v to obtain the function $B^*(\vee')$ which is the spectral intensity in the wave number scale \vee , v being the velocity of displacement of the mirrors. It is shown that the influence of the outlet aperture is to weaken the intensity of spectral lines on the high frequency side. Without the use of the correction coefficient comparison of work by different authors is difficult. The wave number of the distortion depends not only on the method of apodisation, but also on the choice of \triangle and L.

There are 3 figures.

SUBMITTED: July 2, 1962

Card 2/2

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COM I Subjective Company of Supersyll and Su

ACCESSION NR: AP4020965

AUTHOR: Parshin, P.F.

TITLE: Signal-to-noise ratio in spectra obtained by the Fourier spectrometry me-

thod

SCURCE: Optika i spektroskopiya, v.1(, no.3, 1984, 507-512

TOPIC TAGS: signal-to-noise ratio, infrared spectrometry, Pourier spectrometry, noise in spectrometry, noise in spectrograms, noise in interferograms

ABSTRACT: In recording radiation by means of thermal detectors the noise level in the detector does not depend on the strength of the incident flux. In such cases it is expedient to employ Fourier spectrometry and here evaluation of the thermal noise level becomes important. J.Connes (Rev.d'Optique, 40,116,171,1961) investigated the distortion introduced into the spectrogram or interferogram by thermal "white" noise; to evaluate the signal-to-noise ratio Connes took as the source the model of an infinitely narrow line. The shortcoming of this expedient is that the results cannot be applied to absorption spectra and wide-band emission spectra. The present paper is a continuation of theoretical analysis of the problem, but utilizing as

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L 41182-65 /EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1) Pf-4 s/0115/611/000/019/0058/0059 ACCESSION NR. AP5004677 AUTHOR: none TITLE: Fourth scientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods" Source: Izmeritel'naya tekhnika, no. 9, 1964, 58-59 TOPIC TAGS: cybernetics, electric measurement, electric quantity instrument, digital computer, electronic equipment, electric engineering conference ABSTRACT: The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Electrical Measurements of the Council on the Problem of "Scientific Instrument Making" of the State Committee on Coordination of Scientific Research Work in the SSIR together with the All-Union Scientific Research Institute of Electrical Measurement Instruments and the Leningrad Regional Administration of the Scientific and 'fechnical Division of the Instrument Making Industry. More than 400 delegates from 29 cities of the country participated. Fifty-seven reports were heard and discussed. Reports were given by: P. V. NOVITSKIY (Leningrad) -- "Definition of the Concept of Informational Error in Measurement and its Importance in Practical Use" and "On the Problem of the Average Informational Criterion of Accuracy Throughout the Entire Scale of an Instrument"; Ya. A. Card 1/4

L 41:182-65 ACCESSION NR: AP5004677

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KUPERSHMIDT (Moscow) -- "On Determination of the Critoria of Acouracy for Measurement Daviges"; S. M. MANDEL'SHTAN (Leningrad) -- report on a paw priterion of accuracy of measurement instruments; P. F. PARSHII (Leningrad) -- report on optimization when. using Fourier transforms on electronic digital computers; S. P. DHITRIY3V, G. YR. DOLOINTSEVA and A. A. ICNATOV (Loning ad) -- proposal of a new mothod for solving problems of optimum filtering for non-stationary random signals and interforence; I. B. CHELPANOY -- "Calculation of the Dynamic Cheracteristics of an Optimum Complex Two-Channel System which Uses Signals from a Position Meter and from a Speed Meter"; R. A. POLUSKTOV (Leningrad) -- "Optimum Periodic Correction in the Measurement of Continuous Signals": S. P. ADAMOVICH Moscow) -- "Analysis and Construction of Devices for Correction of Non-linearity and Scaling for Unitary Codes; G. V. GORELOVA (Taganrog) -- "A Method for Statistical Optimization in Graduating the Scales of Electrical Measuring Instruments"; M. A. ZEMEL'MAN (Moscow) -- "Analog-Digital Voltage Converter with Automatic Error Correction"; B. N. MALINOVSKIY, V. S. KALENCHUK and 1. A. YANOVICH (Kiev) -- "Automatic Monltoring of the Parameters of the Electrical Signals of Complex Radio and Electronic Equipment" V. P. PEROV (Noscow) -- "Operational Cybernetics as an Independent Scientific Specialization"; Ye. N. CIL'BO (Leningrad) --"On the Problem of Effective Non-linear Scales"; A. I. MARKELOV (Moscow) -- "Devices for Preliminary Processing of the Results of Measurements Presented in the Form of

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ACCESSION NH: AP5004677

Graphic Recordings For Subsequent Introduction of the Information into Universal Digital Computers"; O. M. MOGILEVER and S. S. SOKOLCY (Leningrad) -- "On a Method for Reducing Excess Information"; T. V. NIKOLAYSVA (Leningrad) -- "A Device for Temporal Discretization of Continuous Signals"; A. A. LYOVIN and M. L. BULIS (Mogoow) --"Optimization of the Transmission of Telemetric Information as a Means for Raising the Efficiency and Eliminating Interference"; D. E. GUKOVSKIY (Moscow) -- "On a Statistic Approach to the Detection of Svents in Automatic Inspection"; M. I. LANIN (Leningrad) -- "Method for Calculating the Holding Time of Communications in a Contralized Inspection System or Constant Servicing Time"; O. N. BRONSHTSYN, A. L. RAYKIN end V. V. RYKOV (Moscow) -- "On a Single Line Mass Service System with Losses"; V. M. SHLYANDIN (Penza) -- report on circuit dusigns for direct compensation electrical digital measuring instruments; A. N. KOMOV (Novocherkassk) -- report on a new method for compensation of digital bridges; M. N. CLAZOV (Leningrad) -- report on the problem of voltage-to-angular rotation conversion; V. S. GUTNIKOV (Leningrad) -- "Methods for Construction of Frequency Capacitance Pickups with a Linear Scale"; R. Ya. SYROPYATOVA and R. R. KHARCHENKO (Moscow) -- report on the determination of the amplitude-frequency and phase characteristics of PFM and PAM modulators; Ye. I. TSNYAKOV (Novocherkassk) -- The Phototransistor as a Switch for Blentrical Measurement Purposes"; N. V. MALYGINA (Leningrad) -- a report on ways for making universal equipment for measurement of ourrent, voltage and power; P. P. ORNATSKIY and V. I. ZOZULYA (Kiev) -- reports on the construction of static voltmeters, wattmeters and Card 3/4

왕 회가 있는 경기가 가장 되었다. 1995년 - 1995년 기교 전 경기 등 1997년 1997년 1997년 1		
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